



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 17 1994

William M. Mahiburg
Agent for: PLATTE CHEMICAL CO., INC.
P.O. Box 667
Greeley, CO 80632

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Label Amendment Submission of 09/17/93 in Response to PR Notice 93-7
EPA Reg. No. 34704-211
CLEAN CROP BETASAN 4-E

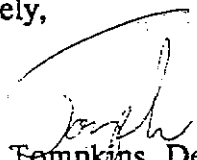
Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully **REMOVES THE PRODUCT FROM THE SCOPE** of PR Notice 93-7 once the comments (if any) on the attached sheet are addressed. Other than the alterations (if any) listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard.

Since your amendment proposes to delete uses directly and/or to delete uses implicitly through the use of exclusionary statements, the Agency will publish in the Federal Register a notice of receipt of your amendment to delete uses, as required by section 6(f)(1) of FIFRA. The Agency will defer action for 90 days from the date of the Federal Register notice to give affected minor users an opportunity to try to persuade you to retain the uses(s). When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted." Your stamped-accepted labeling will then be sent to you.

As described in Supplement A of PR Notice 93-11 (self-verification option), you may sell and distribute product bearing the submitted labeling before you receive a copy of your stamped-accepted labeling. Note that your registration is not amended until the comment period required by section 6(f)(1) of FIFRA has expired and the Agency has approved the amendment. Therefore, you may withdraw your proposed amendment at any time during the comment period and until you receive your stamped-accepted labeling.

Sincerely,


James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)



Recycled/Recyclable
Printed with Soy/Canola ink on paper that
contains at least 50% recycled fiber

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PROPOSED LABEL



BETASAN® 4-E

ACCEPTED with COMMENTS
In EPA Letter Dated

FEB 19 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

Emulsifiable liquid
 Selective Herbicide for Pre-Emergence Control of Crabgrass and Annual Bluegrass in Turf, Ornamentals, and Ground Cover.
ACTIVE INGREDIENT:
 Bensulide: S-(O,O-Diisopropyl phosphorodithioate)
 ester of N-(2-mercaptoethyl) benzenesulfonamide 46.0%
INERT INGREDIENTS 54.0%
TOTAL 100.0%
 Contains 4 Pounds Of Active Ingredient Per Gallon.

Wash clothing before reuse.
IF IN EYES: Hold eyelids apart and flush eyes with large amounts of running water for at least 15 minutes. Get medical attention if irritation persists.

34704-211

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.
STORAGE: Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.
PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

KEEP OUT OF REACH OF CHILDREN CAUTION

See Below For Additional Precautionary Statements

EPA REG. NO. 34704-211

EPA EST. NO. _____

NET CONTENTS _____ GALS. (_____ L)

* BETASAN is a Registered T.M. of ICI Americas, Inc.

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EXP07P83

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

- Harmful if swallowed or absorbed through skin.
- Avoid breathing spray mist.
- Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing.
- Wash thoroughly after handling and before eating or smoking.
- Wash all contaminated clothing with soap and hot water before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.
 Do not apply when weather conditions favor drift from areas treated.

PHYSICAL HAZARDS

Combustible. Do not use, store, pour, or spill near heat or open flame.

STATEMENT OF PRACTICAL TREATMENT

Call a Physician Immediately! If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately initiate the recommended procedures described below and simultaneously contact a physician, the nearest hospital or a Poison Control Center.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor and follow the advice given.

NOTE TO PHYSICIAN: Exposure to the active ingredient may cause cholinesterase inhibition. Atropine by injection is antidotal. 2-PAM is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED: DO NOT induce vomiting. Immediately call a physician or Poison Control Center. Give large quantities of water and get medical attention. If vomiting occurs, give fluids again. Never give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, preferably with a physician's advice.

IF ON SKIN: Flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation oc-

GENERAL USE PRECAUTIONS

READ ALL DIRECTIONS BEFORE USING.

MIX WELL BEFORE DILUTING WITH WATER.

BETASAN 4-E should be used only for recommended uses and at recommended rates.

Do not allow children or pets on treated lawns until grass is completely dry.

BETASAN 4-E is recommended for use on mineral soils only.

Do not apply peat moss to lawn, ground covers, or established ornamentals before treating with BETASAN 4-E.

PRODUCT INFORMATION

BETASAN 4-E is recommended for use on home lawns, parks and golf courses, on ornamental plants and on ground covers for control of crabgrass, annual bluegrass and other annual weeds listed.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

Application of BETASAN 4-E must precede emergence of weeds from the soil. Crabgrass will emerge from the soil from 4 to 6 weeks before it is visible above lawn sod. If weeds are visible above the soil, it is too late to apply BETASAN 4-E.

Remove leaves, dead tall grass, and other debris before applying BETASAN 4-E to turf areas. Any weeds present around ornamentals must be removed or worked into the soil before applying BETASAN 4-E.

WEEDS CONTROLLED

- Annual Bluegrass (*Poa annua*)
- Barnyardgrass (Watergrass) (*Echinochloa spp.*)
- Deadnettle (Henbit) (*Lamium spp.*)
- Fall Panicum (*Panicum dichotomiflorum*)
- Foxtails (*Setaria spp.*)
- Goosegrass (*Eleusine indica*)
- Hairy Crabgrass (*Digitaria sanguinalis*)

BETASAN 4-E

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Lambsquarters (*Chenopodium album*)
Redroot Pigweed (*Amaranthus retroflexus*)
Shepherdspurse (*Capsella bursa-pastoris*)
Smooth Crabgrass (*Digitaria ischaemum*)

TIMING OF APPLICATION

The most effective program for control of crabgrass, goosegrass, annual bluegrass and other annual weeds is one specifically designed for local conditions. Two or more applications per year may be necessary, using the recommended rates given below for a particular weed problem. For additional information regarding timing and rate of application, consult weed specialists of the State Agricultural Extension Service or the State Agricultural Experiment Station.

GRASS LAWNS: BETASAN 4-E should be applied only to well established grass lawns. It can be used on the following established turf grasses:

Bahia	Centipede	Poa Trivialis
Bentgrass spp.	Fescue spp.	Saint Augustine
Perennial Bluegrass spp.	Pensacola Bahia	Red Top
Bermudagrass spp.	Perennial Ryegrass	Zoysia

DICHONDRA LAWNS: BETASAN 4-E can be applied to dichondra lawns at the time of seeding or any time thereafter.

ORNAMENTALS AND GROUND COVERS: BETASAN 4-E should be applied only to the following well established ornamentals and ground covers.

Alyssum	Gazania	Pachysandra
Aster	Coral Bell	Stock
Bachelor's Button	Daisy	Sweet Pea
Calceola	Marigold	Wall Flower
Candy-tuft	Pansy	Zinnia
Daffodil	Primrose	Ranunculus
Daniza	Gladiolus	Tulip
Freesia	Narcissus	Pyracantha
Abelia	Juniper	Sandankwa
Azalea	Monterey Cypress	Star Jasmine
Azara	Monterey Pine	Tobira
Boxwood	Myrtle	Xylosma
Daphne	Privet	Periwinkle
Holly	Hypericum	Sedum
Ajuga	Ice Plant	Wild Strawberry
Campanula	Ivy	

For control of crabgrass, apply BETASAN 4-E at the recommended rate (see RATES OF APPLICATION) any time from fall (September or October) through early spring for spring and summer control. With a late winter or an early spring application, the application must be made prior to crabgrass emergence (See PRODUCT INFORMATION).

For control of annual bluegrass and other annual weeds, apply BETASAN 4-E at the recommended rate (see RATES OF APPLICATION) before weeds emerge from the soil.

Where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of BETASAN 4-E at the recommended rates should be made 4 to 5 months after the initial application.

APPLICATION EQUIPMENT

BETASAN 4-E should be applied with spray equipment that will provide uniform application such as a knapsack sprayer, hose proportioner, or pressure sprayer.

Do not apply this product through any type of irrigation system.

RATES OF APPLICATION

Apply a maximum of 6 1/4 gallons (50 pints) of BETASAN 4-E per acre. (18 fluid ounces per 1,000 square feet) per year in two or more applications depending on the weed species and degree of infestation.

If weed specialists are unavailable to provide specific local recommendations, follow these directions:

CRABGRASS ONLY: Apply 1 7/8 gallons (15 pints) to 2.5 gallons (20 pints) of BETASAN 4-E in 80 to 100 gallons of water uniformly on one acre (5.6 to 7.3 fluid ounces per 1,000 square feet).

Rate of Application for the John Doe Liquid Applicator: Use 22 to 29 fluid ounces in 2 1/2 gallons of water and apply to 4,000 square feet of lawn. Water thoroughly after application.

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 3 1/8 gallons of BETASAN 4-E in 80 to 100 gallons of water uniformly on one acre (9.4 fluid ounces per 1,000 square feet).

When a weed control program involves two to three applications of BETASAN for crabgrass, goosegrass, and bluegrass, the rate of application for goosegrass and annual bluegrass may be reduced to 1 7/8 gallons (15 pints) to 2.5 gallons (20 pints) per acre (5.6 to 7.3 fluid ounces per 1,000 square feet), using the higher rate for heavier infestations.

RESEEDING

Any material that provides effective control of annual grasses may affect new lawn grass seedlings which germinate after treatment. Proper fertilization and watering will encourage the existing turf grass to fill in the thin or bare spots formerly occupied by crabgrass.

The following procedures are suggested in order to minimize any stunting of turf grasses which may occur when reseeding into BETASAN-treated areas:

1. Do not reseed within 4 months after application.
2. Renovate the area to be reseeded by raking thoroughly to scarify the soil surface. Where practical, mix peat in with soil to provide an optimum seed bed.
3. When turf diseases of physiological disorders necessitate reseeding sooner than 4 months after BETASAN 4-E application, apply powdered activated charcoal prior to reseeding to deactivate the BETASAN 4-E.

Apply the activated charcoal at a rate of 7 pounds in 14 gallons of water per 1,000 square feet (300 pounds in 600 gallons of water per acre).

Following application, irrigate the turf with sufficient water to wash the charcoal into the soil.

Reseed no sooner than 7 days after applying the charcoal.

NOTICE

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. PLANT INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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FORMULATED FOR
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